

# Work Order ID 55504

January 19, 2010 1:47:39 PM



Page 1

Item ID: D3215-043

Accept



Setup Start



Revision ID:

Stop



Item Name: Belt Assembly

Start Date: 1/19/10 Start Qty: 4.00



Cust Item ID:

Required Date: 1/25/10 Req'd Qty: 4.00



Customer:

Reference:

Approvals: Process Plan:

*PL*

Date: 10-1-19

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Draw  
Number

Draw  
Rev.

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

D3215

Rev D

100

0.00



PURCHASING

Purchasing

Memo

0.00

Purchasing

Issue P/O: 11181 to Tulmar Safety Systems D3215-043 as per Dwg  
D3215 Ship to Tulmar Certificate of Conformity is required

*PL 10-1-20*

*(H)*

110

Receive & Inspect for Damage & Mat'l Certs

0.00



Packaging

Memo

0.00

Packaging

Ensure certificate of conformity is attached

*For 1/25 (4)*

120

QC6- Inspect dimensions to drawing

0.00



QC

Memo

0.00

Quality Control

*810/02/26*

*(X4)*

# Work Order ID 55504

January 19, 2010 1:47:40 PM

Page 2

Item ID: D3215-043

Accept

Revision ID:

Item Name: Belt Assembly

Start Date: 1/19/10 Start Qty: 4.00

Required Date: 1/25/10 Req'd Qty: 4.00

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Draw  
Number

Draw  
Rev.

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

130

Identify as per dwg & Stock Location: \_\_\_\_\_

0.00



Packaging

Memo

0.00

Packaging

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

*Rec'd 26 (4)*

*10/03/02*

*W 1002.26*

# Picklist Print

January 19, 2010 1:47:43 PM

Page 1

Work Order ID: 55504

Parent Item: D3215-043

Parent Item Name: Belt Assembly



Comments: IPP A 03.10.28 New Issue: KJ/RF  
IPP B 07.06.12 ecn 940 EC

Start Date: 1/19/10

Required Date: 1/25/10

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
D3216-3		Manufactured	No			100	Each	26.0000	4.0000			
												
Fitting												

Warehouse Loc Qty Loc Code  
Location

Main Warehouse

ST

26

35285

26

110

Each

25.0000

8.0000



D3215-3

Manufactured

No

Webbing Tidy

Warehouse Loc Qty Loc Code  
Location

Main Warehouse

ST

25

53873

25

110

Each

13.0000

8.0000



D3216-1

Manufactured

No

Fitting

Warehouse Loc Qty Loc Code  
Location

Main Warehouse

ST

13

53872

13

B 55553 1x

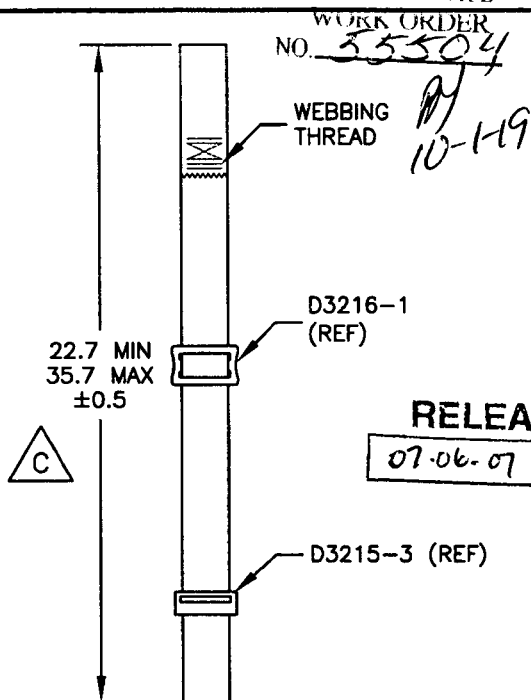
53873 7x

B 55552 1x/2x



SHOP COPY  
RETURN TO  
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SUBJECT TO AMENDMENT  
WITHOUT NOTICE

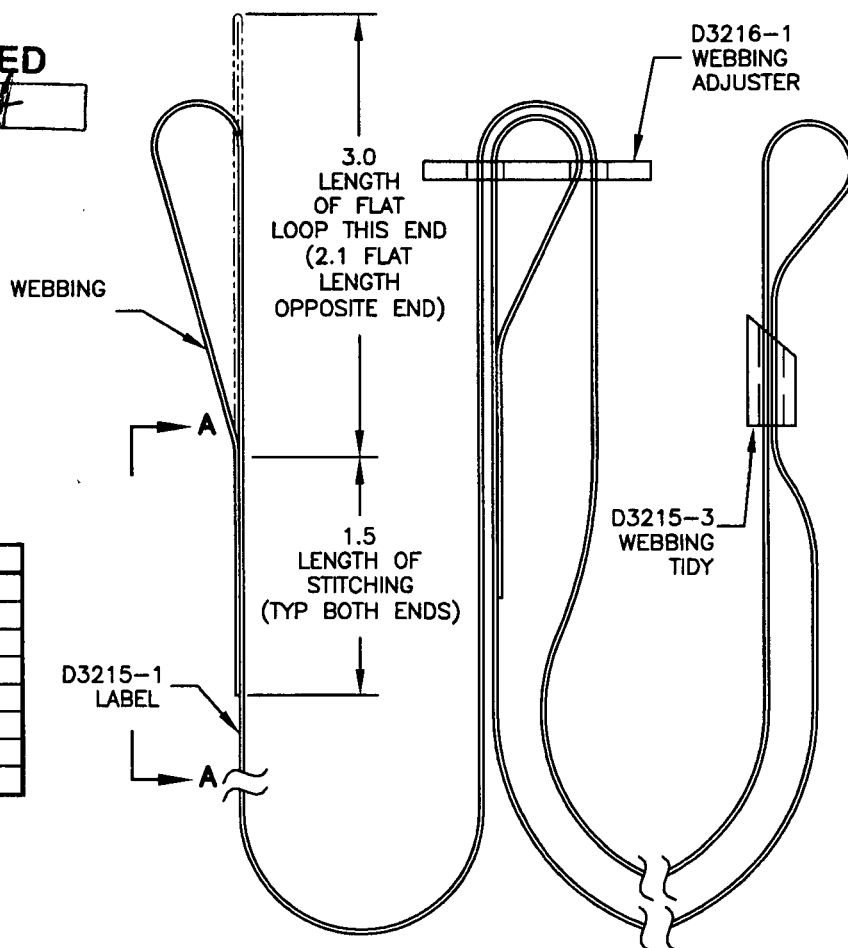
DESIGN <i>GP</i>	DRAWN BY <i>CB</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>CE</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3215	REV. D SHEET 1 OF 3
DATE 07.03.27	TITLE BELT ASSEMBLY		SCALE NTS
A	03.09.19	NEW ISSUE	
B	04.01.12	AS MANUFACTURED; ADD TOLERANCE	
C	04.03.05	REDUCE LENGTH; CLARIFY STITCHING	
D	07.03.27	ADD WEBBING SUPPLIER; ADD LABEL THREAD AND MATERIAL; IN VIEW A-A, 1.4 WAS 1.8; ADD -3A AND -3B; UPDATE TOLERANCES	



ASSEMBLY DETAIL  
NOT TO SCALE

PARTS LIST:

QTY	P/N	DESCRIPTION
X	D3215-041	BELT ASSEMBLY
AS REQ'D	SEE NOTE 1	WEBBING
AS REQ'D	SEE NOTE 1	WEBBING THREAD
AS REQ'D	SEE NOTE 1	LABEL THREAD
1	D3215-1	LABEL
1	D3215-3	WEBBING TIDY
1	D3216-1	WEBBING ADJUSTER



**D3215-041 BELT ASSEMBLY:**

- MATERIAL: WEBBING = LAGRAN CANADA INC. 26472, 1.8 WIDE x 0.05 THICK BLACK POLYESTER WEBBING, CERTIFIED TO FAR 29.853A3, TENSILE STRENGTH 5700 lb MIN  
OR BELT TECH CANADA INC. 27039, 1.8 WIDE x 0.05 THICK BLACK POLYESTER WEBBING, CERTIFIED TO FAR 29.853A3, TENSILE STRENGTH 6000 lb MIN  
WEBBING THREAD = V-T-295 TYPE II CLASS A SIZE 3, BLACK NYLON THREAD  
LABEL THREAD = V-T-295 TYPE II CLASS A SIZE F, BLACK NYLON THREAD

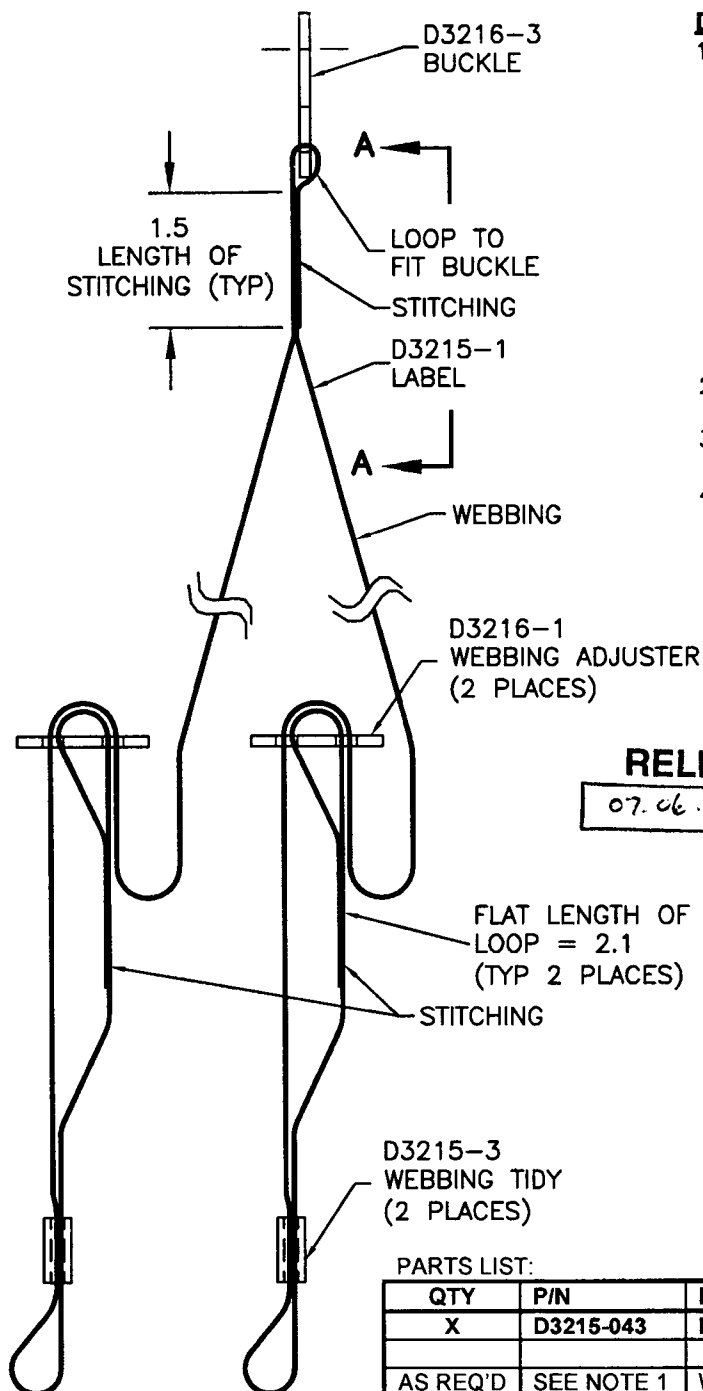
- ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- SEE SHEET 3 FOR VIEW A-A

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DESIGN <i>GP</i>	DRAWN BY <i>CB</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>LE</i>	APPROVED <i>H</i>	DRAWING NO. D3215	REV. D SHEET 2 OF 3
DATE 07.03.27		TITLE BELT ASSEMBLY	SCALE NTS

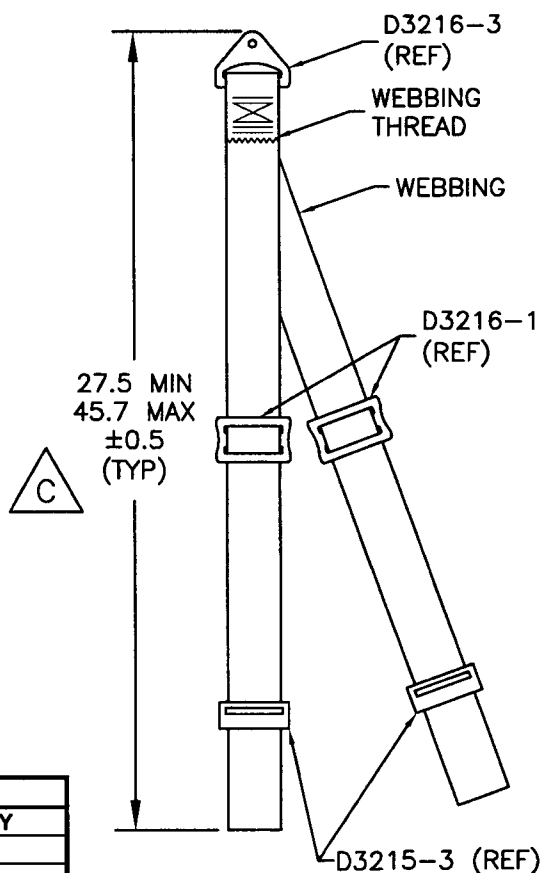


#### D3215-043 BELT ASSEMBLY:

- 1) MATERIAL:  
WEBBING = LAGRAN CANADA INC. 26472, 1.8 WIDE x 0.05 THICK BLACK POLYESTER WEBBING, CERTIFIED TO FAR 29.853A3, TENSILE STRENGTH 5700 lb MIN  
OR  
BELT TECH CANADA INC. 27039, 1.8 WIDE x 0.05 THICK BLACK POLYESTER WEBBING, CERTIFIED TO FAR 29.853A3, TENSILE STRENGTH 6000 lb MIN  
WEBBING THREAD = V-T-295 TYPE II CLASS A SIZE 3, BLACK NYLON THREAD  
LABEL THREAD = V-T-295 TYPE II CLASS A SIZE F, BLACK NYLON THREAD
- 2) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 4) SEE SHEET 3 FOR VIEW A-A

RELEASED

07.06.07



ASSEMBLY DETAIL  
NOT TO SCALE

#### PARTS LIST:

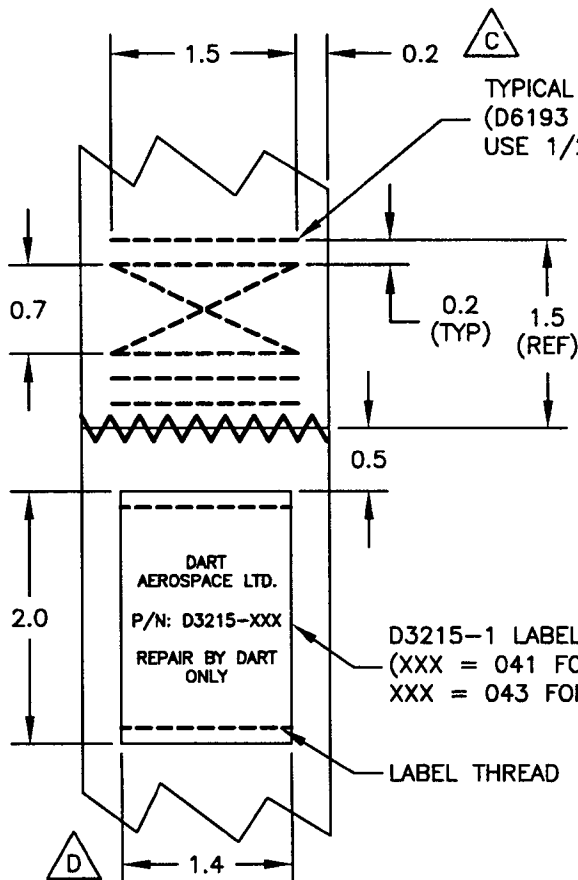
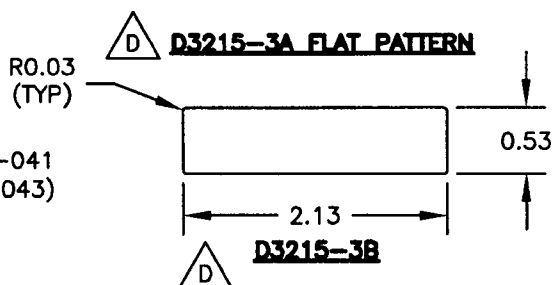
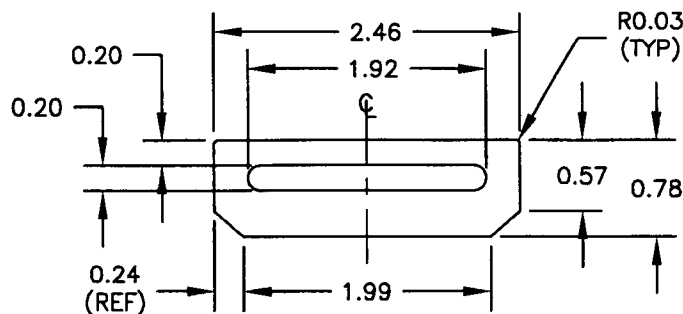
QTY	P/N	DESCRIPTION
X	D3215-043	BELT ASSEMBLY
AS REQ'D	SEE NOTE 1	WEBBING
AS REQ'D	SEE NOTE 1	WEBBING THREAD
AS REQ'D	SEE NOTE 1	LABEL THREAD
1	D3215-1	LABEL
2	D3215-3	WEBBING TIDY
2	D3216-1	WEBBING ADJUSTER

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**DART**

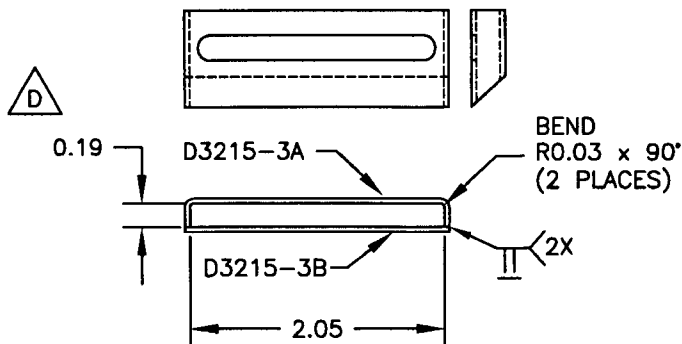
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CHECKED <i>CE</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D3215	REV. D SHEET 3 OF 3
DATE 07.03.27		TITLE HARNESS ASSEMBLY	SCALE 3:2

**VIEW A-A****D3215-3A/-3B NOTES:**

- 1) MATERIAL: 5052-H32 ALUMINUM SHEET, 0.040 THICK PER QQ-A-250/8 OR AMS 4016 (REF DART SPEC. M5052H32S.040)
- 2) BEND D3215-3A PER D3215-3

**D3215-1 LABEL:**

- 1) MATERIAL: WHITE TYVEK OR WHITE POLYESTER WHICH MEETS FMVSS 302
- 2) USE 1/8 BLACK LETTERING
- 3) CENTER ON BELT WIDTH

**RELEASED**07.06 07 *[Signature]***D3215-3 WEBBING TIDY****D3215-3 NOTES:**

- 1) WELD PER DART QSI 004
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 POWDER COAT BLACK SANDTEX (4.3.5.7) PER DART QSI 005 4.3

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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO11181

Purchase Order Date 1/20/10

PO Print Date 1/20/10

Page Number 1 of 1

Order From :

VC-TUL001

TULMAR SAFETY SYSTEMS  
1123 CAMERON ST  
HAWKESBURY, ON K6A 2B8  
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

613 632 1282

613 632 2030

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	D3215-041P	Harness Assembly	2/03/10 Yes	18.00 Each	✓	\$17.0000	\$306.00
			Special Inst:	AS PER DWG: D3215 REV,D B#55503			
2	D3215-043P	Harness Assembly	2/03/10 Yes	4.00 Each	✓ <i>Pickups</i>	\$30.9500	\$123.80
			Special Inst:	AS PER DWG: D3215 REV,D B# 55504			

PO Total:

\$429.8

Change Nbr: 1

Change Date: 1/20/10

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required when applicable

# PACKING SLIP

# TULMAR

Tulmar Safety Systems Inc.  
1123 Cameron Street  
Hawkesbury, ON K6A 2B8 CA  
Tel: 613-632-1282  
Fax: 613-632-2030  
MID : XOTULSAF1123HAW  
email: info@tulmar.com

Packing Slip No.

**35141**

Ship Date

25-Feb-10

Bill To:

**Dart Aerospace**

1270 Aberdeen Street

Hawkesbury, ON K6A 1K7. Canada

Ship to:

**Dart Aerospace**

1270 Aberdeen Street

Hawkesbury, ON K6A 1K7. Canada

<b>Order number</b>	<b>Sales order date</b>	<b>Account number</b>	<b>Account manager</b>
24436	23-Feb-10	CDART100	Barney Bangs
<b>PO number</b>		<b>Ship Via</b>	<b>Shipping Terms</b>
PO11181		Pick-Up	FOB HAWKESBURY
<b>Item No.</b>	<b>Quantity ordered</b>	<b>UOM</b>	<b>Qty Shipped/Returned</b>
<b>Description</b>			<b>Quantity on back order</b>

8937  
Belt Ass'y, 1/2" wide, Black Webbing  
Drawing No: D3215 (P/N D3215-041)  
DWG Rev: D  
**Lot No:** BATCH0000000024 Qty: 18  
QA Clause: RUSH ASAP

18 EA 18

8938  
Belt Ass'y, 1/2" wide, black Webbing  
Drawing No: D3215 (P/N D3215-043)  
DWG Rev: D  
**Lot No:** BATCH0000000017 Qty: 4  
QA Clause: RUSH ASAP

4 EA 4

Shipper

*Richie Delvaux*

Date:

FEB 25 2010

## Certificate of Conformance

☐ Not Applicable

☐ See Certification Enclosed

I hereby certify that the items listed hereon have been inspected, and / or tested (as applicable), conform to all specifications and requirements detailed in the contract or purchase order. Objective evidence to support this statement is on file, and can be made available upon request.  
If any questions or concerns, please contact QA Manager @ 613-632-1282 ext. 245.

Authorized Inspector

*Lance L. Lefebvre*

Date:

FEB 25 2010

MFG. by: **Tulmar Safety Systems Inc.**

**S/O 24436**

**TSS 8938**

**Dart P/N:D3215-043**

**QTY: 4**







**American & Efird Inc.**  
**Post Office Box - 507**  
**Mount Holly, NC -28120**

**Test Report**

Date : 1/29/2010

Mfg. Date : 11/18/2009

Quantity: 42

Lot Id : 661627

Product : Tex 90 BONDED 'Z' NYLON FILAMENT Black AA 63002 16 OZ

Specification : VT295E TPII CLA F BT92N4

Customer Order Number : 15245

Customer : Tulmar Safety Systems Inc

Shipped To : Tulmar Safety Systems Inc

Plys (Visual) : 4

Twist Direction : Z

A&E Color : 63002 Black  
AA

*S*  
*10/10/09*

Characteristic	Test1	Test2	Test3	Test4	Test5	Average	Minimum	Maximum
Strength #1 (Pound)	14.2	14	14	14.5	14.2			
Strength #2 (Pound)	15.2	15	15.1	15.2	15.2			
Average Strength (Pound)						14.7	11.8	

Elongation #1 (Percent)	19.3	18.5	18.6	19.4	19.1			
Elongation #2 (Percent)	20.2	20.3	20.6	20.8	20.6			
Average Elongation (Percent)						19.7		26

Twist S #1 (Turns per inch)	12.3							
Twist S #2 (Turns per inch)	12.3							
Average Twist S (Turns per inch) Initial Twist						12.3		

Twist Z #1 (Turns per inch)	8.2							
Twist Z #2 (Turns per inch)	8.2							
Average Twist Z (Turns per inch) Final Twist						8.2	5.5	

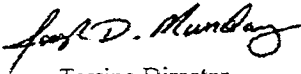
Yield #1 (Yards/Pound)	4235.8							
Yield #2 (Yards/Pound)	4196							
Average Yield (Yards/Pound)						4215.9	3600	5200

Shade Evaluation: GOOD  
 Laundering: GOOD  
 Perspiration: GOOD  
 Wet Dry Cleaning: GOOD  
 Light Test: GOOD

*used on TSS 8937 + 8938*

*TSS #2530/39*

I certify that the above test were performed under my supervision and in accordance with the specification test requirements and that the reported test results are true, valid and applicable to the samples tested. I further certify that these samples were the only samples tested from the lot of components identified above.

Signed :   
Testing Director

**Note :**

This Certificate of Compliance is the property of American & Efird Inc. and may not be reproduced except in it's entirety.

TSS # 2530/39

(S)



# cansew inc.

formerly / anciennement  
Canadian Sewing Supply Ltd. / Ltée - established / établie 1924

Manufacturers of sewing threads. / Wholesalers of elastics, Velcro, tapes, trimmings.  
Fabricants de fils à coudre. / Grossistes d'élastiques, Velcro, galons, garnitures.

21 August 2008

Tulmar Safety Systems  
1123 Cameron Street  
Hawksbury, Ontario  
K6A 2B8

Att. Sandra Nadeau

8  
10/02/26

## CERTIFICATE OF COMPLIANCE

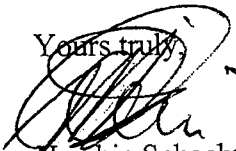
This is to certify that the items mentioned below, shipped to Tulmar Safety Systems by CANSEW INC. on 21 August 2008, have been produced in accordance with the requirements of Purchase Order no. 14637-00 of the same date:

TSS 2530 -Bonded Nylon CBB92 - 19.3 lb, colour black, lot # 675301, meeting the requirements of specification V-T-295, Type 2, Class A, Size F

TSS 2524 -Bonded Nylon CBB92 - 39.76 lb, colour OG-107, lot # 614998 and 667896, meeting the requirements of specification V-T-295, Type 2, Class A, Size F

TSS 2525 -Bonded Nylon CB207 - 20.96 lb, colour black, lot # 656160, meeting the requirements of specification V-T-295, Type 2, Class A, Size 3, 3 ply

Yours truly,

  
Hershie Schachter  
CANSEW INC.

used on TSS 8937 & 8938

TSS 2530/17

TSS 2524/60

TSS 2525/40 RA

**MONTREAL - Head Office/Siège social**  
111 Chabanel W / O H2N 1C9  
Administration (514) 382-2807  
Commandes/Orders (514) 382-2801  
1-800-361-7722  
FAX: (514) 385-5530

**TORONTO**  
28 Apex Rd. M6A 2V2  
(416) 782-1122  
1-800-387-8584  
FAX: (416) 782-8358

**WINNIPEG**  
1674 Church Ave R2X 2W9  
(204) 942-4264  
1-800-665-0701  
FAX: (204) 947-9280

**CALGARY**  
3932 - 29<sup>th</sup> St. N.E. T1Y 6B6  
(403) 291-4494  
1-800-667-4197  
FAX: (403) 291-5139

**VANCOUVER**  
1615 Venables St. V5L 2H1  
(604) 682-4341  
1-800-580-0737  
FAX: (604) 682-4196

# Belt-Tech Products Inc.

Certificate of Compliance No : 53 281 (Épreuve)

Page : 1 de 2  
Date : 2009-12-21  
Time : 08:26:25

Pattern : 27039  
Color : CG008 BLACK  
Customer : TULMAR SAFETY SYSTEMS  
Nissan

Width : 47.000  
Meters : For quantity, please  
refer to packing list

Dye lot No : 416419  
Warp Order :  
Test Date : 2009/01/21

Customer Part Number

Legend : Y = Good - Pass  
N = Fail

Test Method	Date	Type of Test	Min. Spec.	Max. Spec.	Median	Test 1	Test 2	Test 3	
FMVSS 209	2008/10/01	Width - no load (mm)	46.000	48.000	46.410	46.470	46.410	46.390	Y
SAE J 882	2002/05/01	Thickness - original (mm)	1.140	1.400	1.170	1.172	1.170	1.169	Y
ASTM D-3775	2003/09/10	Picks per cm	7.000		7.000	7.000	7.000	7.000	Y
FMVSS 209	2008/10/01	Elongation - @ 11.1 kn load (%)		20.000	6.260	6.400	6.260	6.130	Y
FMVSS 209	2008/10/01	Tensile - original (lbs)	6,700.000		6,927.000	6,900.000	6,927.000	6,954.000	Y
FMVSS 209	2008/10/01	Tensile - hex-bar % of original	75.000		86.300	86.300	85.500	87.100	Y
AATCC TM 8	2007/01/01	Crocking "wet"	3.000		4.500	4.500	4.500	4.500	Y
AATCC TM 8	2007/01/01	Crocking "dry"	3.000		4.500	4.500	4.500	4.500	Y
AATCC TM 107	2002/01/01	Dye stability (staining)	3.000		4.500	4.500	4.500	4.500	Y

Specification(s) : FMVSS 209 revised on 2008-10-01

FMVSS 302 revised on 2008-10-01

Comment(s)

This is to certify that this product conforms to the specification(s) mentioned above and the requirement(s) outlined in the Purchase Order # and was tested at  $22 \pm 3^{\circ}\text{C}$  temperature and 45-55 % relative humidity.

Not applicable for downgraded (second) material

If this document is not signed, it is to be regarded as a non-controlled version

Tested by :

Approved by :

used for TSS 8937 + 8938

TSS 2781 / 11 (82)